Scott. II-48—33,702—27-11-28

P 102E

P.W. (1924) Department.

M SERIES.

G.O. No. 1186 W

DATED 18.10.24

Record
31/10/24

M

[Despatch Abstract.]

Back papers.
198. W/1144 of 24-11-24.

G.F. 81.

Public Works **DEPARTMENT.**-

P.W.D. Memo 2105 Wks-A/24
5-8-24

In future letters, please quote No. dated and short title *	Rec'd ..... Enclosures	Telephone No. Post Box No. Telegraphic Address:
	Reg'd ..... Spare copies	

2 Enclosures
2 estimates
1 plan
forwd

No 473 **Dated** September 1924.

From (Name) J.S.Westerdale Esq., B.Sc., M.Inst.C.E.,
(Designation) Sanitary Engineer to Govt.;
(Address) Chepauk, Madras.

To The CHIEF ENGINEER,
Public Works Department.,

Sir,

*With reference to P.W.D. Memo. No. 1281 Wks-A/24 C.P. dated 23-6-1924 and in continuation of this office No.420 dated 28-8-1924, I have the honor to forward herewith an estimate amounting to Rs.55,000/- for providing two Crossley 70-80 B.H.P. suction gas engines with gas producers and Worthington Simpson 7" five-stage high lift centrifugal pumps. These are provided in lieu of the steam plant included in the sanctioned estimate for which a provision of Rs.1,20,000 is allowed (vide item (4) general abstract sanctioned estimate).

2. A plan with an estimate amounting to Rs.18,000 for providing 12" C.I.flanged suction pipes is also forwarded herewith for sanction in lieu of 18" syphon and 15" suction pipes provided in the sanctioned estimate. The large size pipe and the unreliable syphon arrangement between the two infiltration wells estimated to cost Rs.20,000 in the sanctioned estimate are replaced in this estimate by a common suction pipe of 12" diameter in accordance with plan San.No.63/1924 submitted herewith for approval. As the inlet pipes of the pumps are only

only 7" in diameter, a 12" pipe is sufficient (even for 600 feet of suction main) to minimise the loss in head by friction.

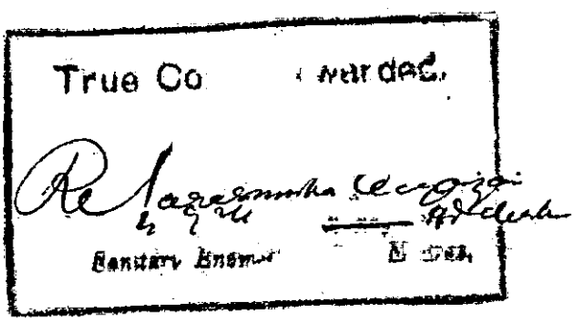
I have the honor to be,

Sir,

Your most obedient sservant,

J. S. Westerdale,
1-9-24

PSN/4-9-24. Sanitary Engineer to Govt.



3/

Public Works Department.

NOTE BY THE CHIEF ENGINEER, P.W.D.

No 2105-W&Sm-1. dated 2.5.th Septr. 1924.

****

The estimate for the Bellary Water Supply Scheme amounting to Rs.9.51 lakhs sanctioned in G.O. No.220-W, dated 20th February 1924 includes a sum of Rs.1,20,000 for pumping plants consisting of two steam driven Triple Expansion Engines and Worthington Double Acting Pumps. Subsequent to the issue of the above G.O. on the recommendation of the Sanitary Engineer to Government, the adoption of a gas plant in lieu of the steam plant was approved by the Chief Engineer in Memo No. 1281--Wks-A/24-C.P., dated 23rd June 1924, in view of the fact that great economy can be effected by the use of gas plant both in first cost and in subsequent maintenance charges.

(27)

('not in file')

2. The Sanitary Engineer now submits for sanction two estimates one amounting to Rs.55,000 for providing two Crossley 70-80 B.H.P. Suction Gas Engines with gas producers and two Worthington Simpson 7" V-stage high lift centrifugal pumps each capable of delivering 417 gallons per minute against a total head of 312 ft. and another amounting to Rs.18,000 for providing 12" diameter cast iron flanged suction pipes instead of 18" syphon and 15" suction pipes provided in the sanctioned estimate.

3. The estimates have been scrutinised by the Chief Engineer and the following remarks are made :--

(1) The amounts provided in the estimate for engines, pumps etc., are approved. The Sanitary Engineer should call for tenders for Crossley Engines and Worthington Simpson pumps or any other

P.T.O.

other equally good suction gas plant of the capacity required.

(2) Rolled steel girders of section 6" x 3" x 12 lbs. supporting the ferro-concrete covering slab of the suction well are not strong enough. Either girders of section 10" x 5" x 30 lbs. (old section) or 12" x 5" x 30 lbs. (new section) should be used.

(3) The rate allowed for rolled steel joists is high and it has been reduced from Rs.20 to Rs.15 a cwt. as the latter amount is considered sufficient.

(4) The 12" pipes should be supported on small wells of 3'-0" internal diameter about 60 ft. apart.

4. With the foregoing remarks the estimates as altered by the Chief Engineer aggregating Rs.73,200 are recommended for sanction.

P.R.
23-9-24
D.W.

M. R. K.
23--9-24.

C.E.(B.R. & General).

Agd

P.W.D

C.No. 2105 Wks/A From the Sanit.Engr. No. 427G. dt 4.9.24.

Note by the Chief Engr. PWD No. dt

Bellary Water-Supply Scheme providing gas engines with gas producers & Centrifugal pumps

pp 3-4 cf

GLS

p/f 1281 Wks/A/24 dt 23.6.24 Pursue in another file

In his letter No. 258G dt 30.5.24. the Sanit.Engineer recommended the adoption of gas plant in lieu of the steam plant sanctioned for the Bellary water-supply scheme in G.O No. 220W dt 22.2.24. As the gas plant with suction charge was expected to cost much less than the corresponding charges for steam plant, the Chief Engr. approved of the proposal pending the receipt of detail plans & est.....te for the gas plant.

flag A

CF

The Sanit.Engineer now submits two estimates, one amounting to Rs 55000 for providing two Crossley gas engines with gas producers and centrifugal pumps and the other amounting to Rs 18000 for providing cast iron flanged suction pipes instead of syphon and suction pipes provided in the sanctioned estimate.

2. The estimates have been scrutinised by the Chief Engineer and recommended by him for sanction subject to certain remarks. Owing to alteration in the proposed sections of rolled steel girders the amount of the estimates has been raised from Rs 73000 to Rs 73200.

vide pp 3-4 cf

3. A

3. A draft order sanctioning the estimates is submitted. It may be forwarded to the S.S.G. (P.H) and the Finance Dept for very early acceptance.

4. The work is now in progress with a grant. The amount of the present estimates (viz Rs 73200) being less than the provision for steam Engine and pumps, viz Rs 120000 in the estimate sanctioned in Govt. 2201 dt 20.2.24, there will be a saving in the estimate.

A grant of Rs 59,500 has been drawn and entered in Fo 1243 P.H.D S.9 24 (not put up)

23.9.24.

20/9/24

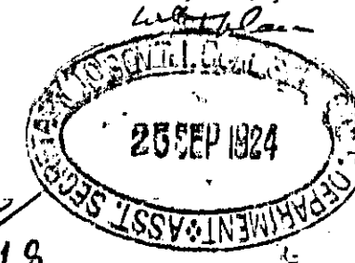
23/9/24

Thro' D. reg funds.

L.S.G. (P.H.)
Finance.

P. Memo 2105 dt 25.9.24

25.9.24.



27081

L.Sg. (P.H)

It will appear from the Sanitary Engineer's letter (in the current file and the draft order) that the sanctioned estimates for the two items referred to are Rs 120,000 and Rs. 20,000. respectively. The revised estimates for these items amount to Rs. 55,000 and Rs. 18,200. The net reduction in the estimated cost is thus Rs. 66,800. The draft order may be accepted and the file returned to the P.W.D. thro' Finance. It is presumed the Asst. Engr. will call for tenders for the engines and

29.9.24

(Please see also paras 4 and 2 of the S.E's report in Fo. 220 PW. dt. 22-2-24 (27)

Rs.
140000
73,200
66,800

hand pumps as recommended by the Chief Engr. in para 3(1) of this note.

P.W.D. 30.9.24

Tin. W/O.

L.S.G. No 27081-IPH 30.4.24 — P.W.D. 30.9.24

P.W.D. 30/9 P.W.D.

SECRETARY TO GOVT. 1 OCT. 1924 PUBLIC WORKS DEPARTMENT

Fe 3714 Exp. 2x.24

Finance (Exp)

The draft order may be accepted.-

Fin 3.X.24 — H.10.24.

Fin Co 3714 Exp-I 7.X.24

P.W.D. 5/X.

U.S

WKS SECTION 8 OCT 24 CURRENT NUMBER 2409

The file may be circulated to M_2 before the draft order is issued

10/10/24 — 12/10/24 — 10/10/24

M_2

P.W.O Box No 26 13-10-24 Read on 14/10/24

As usual the Sup. Engr. this circle P.W.D. calls tenders for the supply of pumps and the Sanct. Engr. 14/10/24.

U.S 15/10/24

S 15/10/24.

218

With reference to M/s Goodeve Anjaneulu, the Supdg Engr., Madras Circle, who is carrying out the work, may be asked to call for tenders for the engine and pumps after obtaining necessary plans, specifications and other details from the Sanitary Engineer.

A para has accordingly been added to the draft, which may now be issued.

16.10.24

17/10/24

Estt. II-10 (a)—16,002—6-2-23. (6)

P.W. DEPARTMENT.

	Date.	Initials.
When received for Fair-copying.		
When copied ..		
When examined ..		
When signed ..		
When despatched ..		

Ref 27.

READ AGAIN G.O. No. 220 W, dated 22. 2. 1924.

" " " " " " 192

READ ALSO;—

Cf pp 1-2 cf p C. No. 2105 WR/A From the Sanitary Engr to Govt, No. 427 G, dated 4.9. 1924.

pp 3-4 cf p " " Note by the Chief Engr PWD, No 2105 WR/A, dated 4.12.1924 192

" " " " " " 192

ORDER.

Min.

No. 1186 W, dated 18. 10. 1924

The following estimates in connection with the Bellary Water-Supply scheme are sanctioned, subject to the remarks of the Chief Engineer PWD in his note read above

(1) Estimate for providing two Crossley 70-80 B.H.P. suction gas engines with gas producers and two Worthington Simpson 7" five stage high lift Centrifugal pumps, in supersession of the provision of Rs 1,20,000 for steam plant provided in G.O. No 220 W dated 22. 2. 24.

Amount Rs 55800

(2)

3 x ✓

Scott. II-10 (a)—16,002—6-2-23. (6)

P.W. DEPARTMENT.

	Date	Initials.
When received for Fair-copying.		
When copied ..		
When examined ..		
When signed ..		
When despatched ..		

Ref 27.

READ AGAIN G.O. No. 220 W, dated 22. 2. 1924.

" " " " " 192 .

READ ALSO;—

C.f. C. No. 2105 Wks/A From the Sanitary Engr. to Govt., No. 4276, dated 4. 9. 1924.

pp 1-2 cf p

pp 3-4 cf p " " Note by the Chief Engr. PWD, No 2105 W/A, dated 18.9.24 192

" " " " 192

ORDER.

Min.

No. 1186W, dated 18. 10. 1924.

The following estimates in connection with the Bellary Water-Supply scheme are sanctioned, subject to the remarks of the Chief Engineer PWD in his note read above

(1) Estimate for providing two Crossley 70-80 B.H.P. suction gas engines with gas producers and two Worthington Simpson 7" five stage high lift Centrifugal pumps, in supersession of the provision of Rs 120.000 for steam plant provided in G.O. No 220 W dy 22. 2. 24. Amount Rs 55800

(2)

(2) Estimate for providing 12" diameter Cast iron flanged suction pipes in supersession of the provision of Rs 20,000 for 18" syphon and 15" suction pipes in the estimate sanctioned in Govt. 220 W&S dy 22.2.24.

Rs. 18200

23.9.24. (B.O.G.M)

23/9/24
for S

1. The Supdg Engr. Madras Circle should call for tenders for the supply of the Engine and pumps after planning necessary plans and specifications from the Sanitary Engineer.

16.10.24.

12/10/24
for S.

To the S. E. Madras Circle with a plan & abstract. SA IV 13/24

.. Sanitary Engr.

.. Accountant-General through the Finance Dept

.. L.S.G. (P.H) Dept with a copy of the notes.

one copy for the Secretariat

FD.

DESPATCHED
21 OCT 1924

Ref 27

Sectt. II-47—597 Bks.—24-1-18 (5).

A. / B. / N.P. } (a)

DEPARTMENT.

ORDINARY / ROUTINE SERIES.

† G.O. No. dated 191 .

CIRCULATED. / NOT CIRCULATED. / NOT SEEN BY C.S.

Receipt numbers ..	-10-rd
Number and date of previous proceedings.	[illegible]

Tabling Abstract.

[illegible] in view of gas engines & Worthington pumps be approved instead of [illegible] Eng. Co.

(b) **Index Headings.**

MAIN HEADING Sanctn.

CROSS REFERENCES. Water Supply

SPECIAL INDEX.

DO NOT SPECIAL INDEX.

(a) and (b) not to be filled in for 'Routine' Series.